## **CLAIMS**

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What is claimed is:

A method for routing calls through a discount elephone service, comprising:

determining whether an outgoing call is a

∡eliscount call;

collecting the digits corresponding to the

discount call; and

dialing the access number for a discount telephone service provider and the digits corresponding to the discount call.

2. The method according to claim 1, further comprising:

detecting a first predetermined number of DTMF tones corresponding to a discount call.

3. The method according to claim 2, wherein the determining whether a discount call is made is accomplished by determining whether the first predetermined number of DTMF' tones meets a predetermined sequence of DTMF tones.

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4. The method according to claim 2, wherein the determining whether a discount call is made is accomplished by determining whether the first DTMF tone associated with a

dialed number is zero

5. The method according to claim 2, further comprising:

determining whether an access code is required to effectuate said routing; and providing said access code to the telephone line when said code is required.

- 6. The method according to claim 1, wherein the discount call is an international call.
- 7. The method according to claim 1, wherein the discount call is not a special service call or toll free call.
- 8. The method according to claim 2, further comprising:

choosing the access number among a plurality
of access numbers for discount telephone providers; and
dialing the selected access number of the

9.\A method for routing calls through a discount telephone service, comprising:

monitoring phone function keys outgoing

call activity;

determining whether the outgoing call is a

potential discount call;

a first predetermined number of DTMF tones, wherein the determining whether the outgoing call is a potential discount call is accomplished by determining whether the first predetermined number of at least one DTMF tone meets a predetermined sequence of the DTMF tones;

collecting the digits corresponding to the discount call; and

dialing the access number for a discount telephone provider and the digits corresponding to the discount call.

10. The method according to claim 9, further comprising:

effectuating a re-set state when an initial phone number is entered but not dialed.

11. The method according to claim 9, further comprising:

determining whether an access code is required to effectuate said routing; and

transmitting said access code through the cell phone when said code is required.

- 12. The method according to claim 9, wherein the potential discount call is an international call.
- 13. A system for routing calls through a discount telephone service, comprising:

means for determining whether an outgoing call is a potential discount call;

means for collecting the digits corresponding to the outgoing call; and

means for dialing the access number for a discount telephone service provider and the digits corresponding to the outgoing call.

14. The system according to claim 13, further comprising:

means for detecting a first predetermined

number of DTMF tones corresponding to a potential discount call.

15 The system according to claim 14, wherein the means for determining whether a discount call is made is accomplished by a means for determining whether the first. predetermined number of DTMF tones meets a predetermined sequence of DTMF tones.

- 16. The system according to claim 14, wherein the means for determining whether a discount call is made is accomplished by the first DTMF tone associated with a dialed number is zero.
- 17. The system according to claim 14, further comprising:

means for determining whether an access
code is required to effectuate said routing; and
means for providing said access code to the
cell phone when said code is required.

18. The system according to claim 13, wherein the potential discount call is an international

19. The system according to claim 13, wherein the potential discount call is not a special service call or toll free

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20. The system according to claim 14, further

comprising:

among a plurality of access numbers for discount telephone providers; and

means for dialing the selected access number of the associated discount telephone provider.

21. A system for routing calls through a discount telephone service, comprising:

means for monitoring a cell phone function keys for outgoing call activity;

means for determining whether the outgoing call is a potential discount call,

means for detecting at least one DTMF tone corresponding to a first predetermined number of said at least one DTMF tone, wherein the means for determining whether the outgoing call is a potential discount call is accomplished by determining whether the first predetermined number of DTMF tones meets a

predetermined sequence of DTMF tones;

means for collecting the digits corresponding to the discount call; and

means for dialing the access number for a discount telephone provider and the digits corresponding to the discount call.

22. The system according to claim 21, further comprising:

means for determining whether an access code is required to effectuate said routing; and means for transmitting said access code through the cell phone when said code is required.

- 23. The system according to claim 21, wherein the potential discount call is an international call.
- 24. The system according to claim 21, wherein the potential discount call is not a special call or a toll free call.
- 25. A system for routing calls through a discount telephone service, comprising:

a DTMF decoder configured for identifying

DTMF tones associated with an outgoing telephone

number;

a processor configured for analyzing one or more of the DTMF tones, and configured for determining whether a potential discount call is being made;

a memory configured for collecting the telephone number corresponding to the potential discount call; and

a DTMF generator configured for dialing the access number for a discount service provider and the outgoing telephone number.

- 26. The system according to claim 25, wherein the processor is further configured for comparing a first predetermined number of said DTMF tones in order to determine whether the outgoing telephone number is a discount call.
- 27. The system according to claim 26, wherein the predetermined sequence comprises the tone associated with the number zero.
  - 28. The system according to claim 27, wherein the

tone associated with the number zero is located in a predetermined position.

- 29. The system according to claim 26, wherein the processor is further configured for determining whether an international phone call is being made prior to the detection of a Send Key command.
- 30. The system according to claim 26, wherein the processor is further configured for determining whether an access code is required to effectuate said routing, and for transmitting said access code stored in memory over the cell phone when said code is required.
- 31. The system according to claim 25, wherein the potential discount call is an international call
- 32. The system according to claim 25, wherein the potential discount call is not a special type call or toll free call.
- 33. The system according to claim 26, wherein the processor is further configured for choosing the access number among a plurality of access numbers for discount

telephone providers, and for dialing the selected access number of the associated discount telephone provider, said dialing is effectuated by the tones generated by the DTMF generator.

34. A system for routing calls through a discount telephone service, comprising:

an array of Pic I/O pins configured for monitoring a cell phone activity for outgoing call, said array comprising of at least one Pic I/O pin;

a DTMF encoder configured for detecting the DTMF tones associated with an outgoing telephone number,

a processor configured for determining whether the outgoing call is a discount call by determining whether the predetermined number of dialed digits comprises a predetermined sequence of at least one DTMF tone that is dialed by a user;

a memory configured for storing the telephone number corresponding to the discount call; and a DTMF generator configured for dialing the access number for a discount service provider and the outgoing telephone number.

35. The system according to claim 34, wherein the processor is further configured for determining whether an access code is required to effectuate said routing, and for transmitting said access code over the cell phone when said code is required.

- 36. The system according to claim 34, wherein the potential discount call is an international call.
- 37. The system according to claim 34, wherein the potential discount call is not a special type call or a toll free call.
  - 38. A cell phone comprising the router of claim 21.
  - 39. A cell phone comprising the router of claim 34.
- 40. Computer executable software code stored on a computer readable medium, the code for routing calls through a discount telephone service, comprising:

code for determining whether an outgoing call is a discount call;

code for collecting the digits corresponding to the discount call; and

discount telephone service provider and the digits corresponding to the discount call.

41. A computer readable medium having computer executable software code stored thereon, the code for routing calls through a discount telephone service, comprising:

code for determining whether an outgoing

call is a discount call;

code for collecting the digits corresponding

to the discount call; and

code for dialing the access number for a discount telephone service provider and the digits corresponding to the discount call.

42. A programmed computer for routing calls through a discount telephone service, comprising:

a memory having at least one region for storing computer executable program code; and

a processor for executing the program code store in memory, wherein the program code includes:

code for determining whether an outgoing call is a discount call;

code for collecting the digits corresponding to the discount call; and

code for dialing the access number for a discount telephone service provider and the digits

corresponding to the discount call.

43. Computer executable software code stored on a computer readable medium, the code for routing calls through a discount telephone service, comprising:

code for monitoring a cell phone for

outgoing call activity;

code for determining whether the outgoing

call is a potential discount call;

code for detecting the DTMF tones

corresponding to a

first predetermined number of DTMF tones, wherein the

determining whether the outgoing call is a potential

discount call is accomplished by determining whether the

first predetermined number of at least one DTMF tone

meets a predetermined sequence of the DTMF tones;

code for collecting the digits corresponding

to the discount call; and

code for dialing the access number for a

discount

cell phone provider and the digits corresponding to the

discount call.

44. A computer readable medium having

Computer executable software code stored thereon, the code for routing calls through a discount telephone service, comprising:

code for monitoring a cell phone activity for

outgoing call;

code for determining whether the outgoing call is a potential discount call;

code for detecting the DTMF tones corresponding to a first predetermined number of DTMF tones, wherein the determining whether the outgoing call is a potential discount call is accomplished by determining whether the first predetermined number of at least one DTMF tone meets a predetermined sequence of the DTMF tones;

code for collecting the digits corresponding to the discount call;

code for determining whether all of the numbers associated with the discount call have been collected within a predetermined polling period; and

code for dialing the access number for a discount telephone provider and the digits corresponding to the discount call.

45. A programmed computer for routing calls

through a discount telephone service, comprising:

a memory having at least one region for storing computer executable program code; and

store in memory, wherein the program code includes:

code for monitoring a cell phone activity for

outgoing call;

code for determining whether the outgoing call is a potential discount call;

code for detecting the DTMF tones corresponding to a first predetermined number of DTMF tones, wherein the determining whether the outgoing call is a potential discount call is accomplished by determining whether the

first predetermined number of at least one DTMF tone meets a predetermined sequence of the DTMF tones;

code for collecting the digits corresponding to the discount call; and

code for dialing the access number for a discount telephone provider and the digits corresponding to the discount call.